



STAT

January 13, 1969

Attention: Ed D.

Subject: Control #02228 - Status Report for  
Period Ending December 31, 1968

Gentlemen:

During this report period the following tasks have been performed.

1. A written price and delivery quotation for the manufacture of one High Power Stereo Comparator Head was received from [redacted] on December 6, 1968. This quotation included acceptance of the specification dated October 2, 1968, which was submitted by [redacted] to assure that performance characteristics of the Stereo Comparator Head would meet the customer's requirements as defined in the contract. [redacted] was notified by telephone on December 10, 1968, that the price and delivery terms were acceptable to [redacted] and authorization was granted to start work on the Stereo Comparator Head immediately. Purchase Order M26601 was mailed by [redacted] to [redacted] on December 10, 1968, as written confirmation of this telephone conversation. The original verbal price and 30-week delivery terms quoted by [redacted] during the contract negotiation period remain unchanged in their final written quotation.
2. The technical representative visited the [redacted] on December 18, 1968, to discuss progress on the twin stage comparator. The delivery date for the [redacted] Stereo Comparator Head was known at this time, therefore, it was possible for the [redacted] to provide the technical representative with the following expected milestone dates.
  - a. March 15, 1969 Completion of the Digital Control System
  - b. June 15, 1969 Completion of the electrical, optical, and mechanical portions of the twin stage comparator with the exception of the stereo viewing system.

NGA Review Complete



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- c. July 15, 1969      Receipt of the High Power Stereo Comparator Head from [REDACTED]
- d. October 15, 1969      The twin stage comparator system to be completed and ready for delivery to the customer. [REDACTED] intends to deliver the instrument prior to this date if possible, in which case the customer will be notified and asked to approve the earlier delivery.

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- 3. All Meehanite castings necessary to manufacture the twin stage comparator have now been received from the foundry.
- 4. Work was continued on the detail machining drawings for individual components associated with the following assemblies.
  - a. X and Y coordinate stages
  - b. X and Y coordinate precision lead screw and bearing assemblies.
  - c. Rear section of the overarm
  - d. Comparator base
  - e. X and Y coordinate motor drive assembly
  - f. 360° Rotary table for cut film stage.

Those drawings required for rough grinding and rough machining of the Meehanite castings were completed and checked early in this report period so these operations could be started.

- 5. Detail machine drawings for the X and Y coordinate motor drive and precision lead screw and nut assemblies were completed, checked, and sent to our production department for manufacture.
- 6. Drawings for the digital readout heads were sent to our production department early in December and the individual components are presently nearing completion. These heads will be used in conjunction with the X and Y coordinate motor drive assembly to monitor revolutions of the individual precision lead screw assemblies.
- 7. The following operations have been performed on the Meehanite castings for the twin stage comparator.
  - a. The instrument base has been rough ground, rough machined, and stress relieved.

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- b. The X coordinate stages have been rough ground and rough machined.
- c. The Y coordinate stages and rotary tables have been rough ground in preparation for the rough machining operation.
- d. The precision lead screw blanks have been rough machined and stress relieved.

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8. [ ] submitted a letter to the contracting officer requesting that the delivery date of the twin stage comparator be extended to October 15, 1969, because of the unavoidable delay encountered in obtaining a written price and delivery quotation from [ ] for one High Power Stereo Comparator Head. Also requested in the letter was that a partial payment on this contract be considered by the contracting officer. It was proposed that the amount of such payment be contingent upon the percentage of completion of the twin stage comparator when all the instrument system is completed with the exception of the modified stereo viewing system.

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It is estimated that 23% of the work on the twin stage comparator contract has been completed as of this report period.

During the January report period, the [ ] plans to do the following work.

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- 1. Continue making detail machining drawings of individual components incorporated in the design layouts.
- 2. Start checking completed detail drawings so they may be released to our Production Department.
- 3. Complete all component parts for the digital readout heads and assemble them.
- 4. Start a design layout for the cut film stages.
- 5. Start manufacturing component parts for the X and Y coordinate motor drive assemblies.
- 6. Start an optical design layout of the illumination system to be used with the modified High Power Stereo Comparator Head.

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7. Start a design layout of the instrument console. A portion of this layout will include the mechanical components necessary to mount the optical elements and lamp associated with the stereo viewer illumination system.
8. Prepare and submit the preliminary engineering installation data sheets as required by this contract.

A Status of Funds statement will be found on the following page.

Very truly yours,

A rectangular box with a black border, used to redact the signature of the Assistant Manager of Engineering.

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Asst. Manager, Engineering

HBB:pc

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